

# 5.56 x 45mm RIFLES

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## STATEMENT OF REQUIREMENTS

### 5.56 x 45mm RIFLE

#### United States Secret Service (USSS)

## 1.0 GENERAL

### 1.1 SCOPE

The United States Secret Service (USSS) requires the acquisition of a rifle that meets the specifications outlined in this Statement of Requirements. The USSS intends to award a single-award indefinite-delivery, indefinite-quantity (IDIQ) contract for a period of five years. The maximum order quantity for the duration of this IDIQ will be 3,000 units..

**1.2 Period of Performance** The period of performance for this IDIQ is five years, beginning on the date of award, with annual reviews by the Contracting Officer. This requirement is anticipated to be awarded in Fiscal Year 2018.

**1.3 Delivery** All delivery-orders off this IDIQ will be shipped to the James J. Rowley Training Center in Laurel, MD in accordance with USSS agency delivery procedures. These procedures will be indicated at the time of delivery-order award, as procedures may change over time.

All deliveries are subject to the Bureau of Alcohol, Tobacco, Firearms and Explosives' regulations and shall be completed in accordance with all applicable statutes and requirements of the National Firearms Act.

## 2.0 REQUIREMENTS

**2.1 General.** The USSS has a requirement for a 5.56 x 45mm rifle, equipped with full- and semi- automatic firing capability, for use in all environmental conditions, including when discreet carry and/or maximum concealment is required. The weapon shall be commercially available and exhibit a 'manual of operation' consistent with the existing/legacy M-16 family of weapons. All weapons shall be of new manufacture in serial production at time of initial submission. Rebuilt, overhauled, remanufactured, "seconds", or any condition that is other than new shall not be accepted.

**2.2 Testing.** The specifications that are subject to testing under this contract will be set forth in the official Solicitation. The USSS Office of Training - Firearms Policy and Development Section will conduct all testing; however, the USSS reserves the right to use an outside laboratory, at Government expense, to conduct performance verification if it deems necessary.

The successful offeror(s) agrees to allow the USSS to release testing data of their firearm samples to other Federal agencies, the U .S. Military, and U.S. law enforcement agencies. Release of this data will be on a case-by-case basis and will only be forwarded after receipt of a request on official agency or department letterhead. Requests to the USSS will state that the "Information is requested for official use only and will not be disseminated outside the requesting agency (i.e. Federal agencies, etc.) or department.

**2.2.1 First Article Test [FAT] (Post-Award)** The specifications described in this Statement of Requirements will serve as the FAT, and will be verified for First Article samples received following contract award. All FAT samples must meet the requirements set forth in the official solicitation and exhibit performance that is comparable to what was demonstrated during solicitation testing for all requirements during FAT. The Government reserves the right to decrease the amount of testing it performs under the FAT protocols. All samples submitted pursuant to FAT will become property of the USSS upon receipt and will not be returned. The Government may invoke its right to require the Contractor conduct a FAT for the following

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conditions:

- a. First fifteen (15) production samples after solicitation.
- b. Design change of the firearm or components.
- c. Design change of manufacturer's production process and/or equipment.
- d. Relocation of manufacturer's production facility.
- e. Major firearm quality defects, recalls, and/or any other substandard performance issues.
- f. A production lapse of six (6) months or more.
- g. Manufacturer changes supplier of critical components (receiver, barrel, recoil system, and internal mechanism parts that affect firing or cycle of operation).

The Government will be responsible for conducting a FAT if it is invoked for condition "a". The Contractor will be responsible (under Government supervision) for conducting the FAT for all other conditions and will be responsible for all associated expenses to include testing, shipping costs, administrative/processing costs, and any other expenses associated with FAT and/or firearm quality issues.

**2.2.2** Limited Technical Inspection [LTI] (Post Award) During the contract term, if the manufacturer of the weapon modifies the rifle in any way, the contractor shall be required to notify the USSS Office of Training - Firearms Policy and Development Section, the Contracting Officer's Representative (COR) and the Contracting Officer at least sixty (60) days in advance of any changes in material, make up, or specifications of the weapon prior to delivery. The specifications designated for LTI in the official solicitation will be verified for each production sample received during the duration of the contract. All contract production samples must meet the requirements set forth in the official solicitation and exhibit performance that is comparable to what was exhibited during solicitation testing for all requirements during LTI. The Government reserves the right to increase the amount of testing it performs under the LTI protocols up to the full amount of testing set conducted during all phases of solicitation testing. Firearms will be inspected in their entirety for general contract compliance.

If the new modifications do not pass the Government's testing (via LTI or further), the Government reserves the right to reject the modifications. If the Government refuses the modifications, then the Contractor shall continue to deliver in accordance with the original contract specification.

### **2.3 Quality Management System (QMS).**

- 2.3.1** The manufacturer shall have a QMS in place that enables the organization to identify, measure, control, and improve key manufacturing processes.

### **2.4 Quality Control (QC)/Quality Assurance (QA).**

- 2.4.1** The offeror(s) shall provide a current QC/QA process synopsis including examples of their quality plans for the manufacturing of USSS firearms with their solicitation sample. Submission of a complete copy of the manufacturer's Quality Manual or a copy of the manufacturer's ISO certification will fulfill this requirement.

### **2.5 Warranty.**

- 2.5.1** The offeror(s) shall warranty the firearm for minimum ten (10) years from the date of delivery of the firearm to the Government. The manufacturer shall replace any firearm that has a gross failure of the barrel, receiver, or operating system within the warranty period rendering the firearm unsafe and/or non-operational, due to defects in material or workmanship. Normal 'wear

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and tear' components associated with use shall be warranted to the life of the component as identified in the manufacturer's provided documented preventative maintenance regimen (See 2.8.5.3).

The warranty shall cover and provide the USSS, with every firearm purchased, a complement of any and all parts prescribed by the successful offeror's maintenance schedule and or replacement schedule identified during the USSS Evaluation and Testing process. Additionally, should any new part be manufactured to rectify any unforeseen defect or deficiency, the successful offeror shall provide the USSS, if accepted, with the "upgraded" part, for every firearm purchased.

**2.5.2** During the period of the warranty, the Government will ship defective item(s) back to the manufacturer's facility for repair or replacement. The successful offeror shall be responsible for all shipping charges. A courier with parcel tracking, from pickup to delivery (such as FEDEX or UPS) must be used and the parcel must be delivered utilizing overnight or next day service.

**2.5.3** The lower receiver shall be warranted for a minimum of 20,000 rounds.

### **2.6 Non-Disclosure.**

Serial numbers provided for the weapons purchased by the U.S. Secret Service shall not be released to any non-US Government entity, without prior written approval of the Contracting Officer and the Contracting Officer's Representative (COR).

### **2.7 Sample Size.**

**2.7.1** Solicitation Test (Pre-Award) The sample size for the solicitation submittal shall be seven (7) firearms and three (3) magazines (Magpul PMAG 30, Mfr Part # MAG556) per each firearm.

**2.7.2** First Article Test [FAT] (Post-Award) The sample size for any FAT submittal, following contract award, shall be three (3) firearms and five (5) magazines per firearm variant.

### **2.8 Training & Documentation**

The successful offeror shall provide armorer training no later than 30 days prior to first delivery of weapons.

**2.8.1** In-person training shall be provided to no less than five (5) designated armorers, on site at the USSS Office of Training - Firearms Policy and Development Section location, or the offeror's manufacturing facility. Training duration shall be no longer than five (5) days in length. This training shall include, but not be limited to, complete and detailed assembly and disassembly of the weapon, diagnosis and resolution of malfunctions, fitting of parts, training in the functioning and engineering of the design, symptoms of impending malfunctions, necessary tools and their proper use, and necessary dimensions and tolerances. The training shall be available for the duration of the contract.

**2.8.2** Maintenance Documentation- The contractor shall provide documentation, written in English, regarding factory recommended maintenance procedures for the expected service life of the weapons (at both the operator and armorer level). This documentation shall be provided in the form of a well- organized presentation document specifically addressing the weapons being delivered under this contract. This presentation shall be provided in six (6) printed copies and one (1) copy in electronic format.

**2.8.3** The manufacturer shall prepare and supply an inventory of spare parts based on the initial first year's purchase of rifles and any other parts as recommended by the manufacturer and the government. In addition, the manufacturer shall supply all the spare parts necessary to perform

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preventive maintenance to 20,000 rounds (per weapon). The spare parts shall be delivered with the shipment of the rifles. This shall also apply to all rifles purchased in option years.

### 2.8.4 Tools:

**2.8.4.1** The successful offeror shall supply five (5) sets of any/all special or unique tools required to service the weapon. This includes but may not be limited to gauges, jigs, barrel wrenches, vice jaws, factory headspace gauges, etc. Additionally, manufacturer shall include detailed chamber drawings and applicable Rockwell Hardness specifications relevant to the selected weapon.

**2.8.4.2** All tools and spare parts shall be delivered to the USSS/RTC Armory no later than 30 days prior to the first delivery of rifles.

### 2.9 Physical Characteristics.

**2.9.1** The weapon shall be operable, without modification or alteration, by a right or left-handed user, firing with the right or left hand, depending on handedness.

**2.9.2** All external metal parts of the weapon shall have a dark subdued, rust/corrosion resistant finish. The finish shall be unaffected by commercially available gun cleaning solvents, such as *Simple Green*, used in heated ultrasonic cleaning tanks. Flaking, peeling, blotching, etc. of the finish is unacceptable.

**2.9.3** The weapon shall be chambered in accordance with current U.S. Military specifications for 5.56 x 45mm, and function with assorted ammunition ranging in weight from 55 to 77 grains (to include all common SAAMI-spec and Mil-Spec ammunition) as well as frangible ammunition.

### 2.9.4 Dimensional Requirements:

**2.9.4.1** Height (no taller than, sights folded, w/o accessories or magazine) .....8.5 inches

**2.9.4.2** Weight (no heavier than, w/o accessories) .....7.5 pounds

**2.9.4.3** O/A Length (no longer than, w/stock fully extended).....34 inches

**2.9.4.4** Barrel length (min – max)..... 10-12 inches

**2.9.4.5** Rifling (5.56) .....1 turn 7” inch twist RH

**2.9.5** Operating System. The weapon shall utilize a direct-impingement gas-operated system or a short-stroke gas piston system.

### 2.9.6 Barrel.

**2.9.6.1** The barrel shall have a minimum service life of 15,000 rounds.

Barrel service life is defined as a not exceeding 5 Minutes-of-Angle (MOA) and exhibiting no more than 125 ft/sec decrease in velocity (in accordance with USSS velocity testing procedures), with observance of offeror’s submitted maintenance protocols.

**2.9.6.2** The barrel shall be free of cracks, seams, and other injurious defects and the bore and chamber shall be free of pockets, rings, bulges, and other deformations. The bore and chamber shall be chromium plated, or of equivalent corrosion resistance. Any coating in the chamber and bore shall be free of nodules, flaking, pits, stripping, anode burrs and evidence of etched base steel. Burrs and sharp edges shall be removed from the chamber edges, and

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bolt locking lugs.

**2.9.6.3** The muzzle of the barrel should bear a thread size of ½" x 28 tpi, with shoulder geometry of 90°.

**2.9.6.4** The muzzle should be equipped with a flash hider device, installed with shims as necessary. Crush washers are not acceptable.

**2.9.7** Mode of Fire. The weapon shall be selective fire, i.e. semi-automatic and full automatic. A "burst limiter" in the full-automatic mode is not acceptable.

**2.9.8** Fire Selector.

**2.9.8.1** The fire control selector shall be ambidextrous in design, and be a single lever paddle mounted on the side of the receiver, adjacent to the rear pistol grip, thereby not requiring the shooter to significantly break their firing grip when actuating.

**2.9.8.2** The fire control selector shall be a rotary type and shall have three positions; safe, semi-automatic and automatic and shall rotate manually without binding from one position to another when the hammer is cocked. The selector shall remain in place in each position by a perceptible spring detent load until manually reset.

**2.9.8.2.1** With the hammer cocked, when the selector is placed in the "SAFE" position, it shall prevent the trigger from releasing the hammer so that the weapon is incapable of being fired.

**2.9.8.2.2** When the selector is placed in the "SEMI AUTOMATIC" position, it shall have a disconnect, so that the weapon is capable of semi-automatic fire only (one shot with each pull of the trigger).

**2.9.8.2.3** When the selector is placed in the "AUTO" position, the weapon shall be capable of automatic fire (continuous firing until the trigger is released or all cartridges are expended) at a rate of no less than 600, and no greater than 900, rounds-per-minute, while utilizing M193 ammunition.

**2.9.9** Trigger.

**2.9.9.1** The trigger shall hold the hammer in the cocked position until the trigger is pulled. After partial or complete trigger pull, the trigger shall return to its normal forward positions (cocked and uncocked) under spring action.

**2.9.9.2** The trigger pull shall not measure less than 4.0 pounds, nor more than 6.5 pounds, regardless if the fire selector is set on semi or full-automatic fire.

**2.9.9.3** The trigger configuration shall be two-stage with no adjustment screws or set screws.

**2.9.9.4** The trigger shall have a smooth face, cannot be wider than the trigger guard, and shall be the only control inside the area enclosed by the trigger guard. Any other controls (bolt catch/release, magazine/catch release, etc.) inside the area enclosed by the trigger guard are not acceptable.

**2.9.9.5** While utilizing gloves, the trigger shall not pinch the trigger finger between the trigger and the side of the receiver or between the trigger and the inside bottom of the trigger guard (see Note 1). Any manipulation/modification to the trigger guard to meet this requirement is not acceptable.

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- 2.9.10** Charging Handle. The charging handle shall be situated in the upper receiver. The charging handle shall not reciprocate with the bolt when the weapon is fired. The charging handle shall be capable of being operated with one hand while the shooter's other hand is grasping the pistol grip or forend grip.
- 2.9.11** Bolt Hold-Open Device. The rifle shall be equipped with a magazine activated bolt hold open device. The bolt hold open device shall also be capable of being activated manually by the operator. When the bolt hold open device is activated by the magazine follower and the magazine is subsequently removed, the bolt shall remain in the rear or open position. When the bolt is in the rear or open position and a full magazine is inserted, the bolt shall remain in the rear or open position until the operator manually activates the bolt release. When the bolt catch is released, the bolt shall return to the battery position. Upon release, the bolt shall strip a round from the loaded magazine and load it into the chamber.
- 2.9.12** Magazine. The weapon magazine well shall be compatible with the standard NATO STANAG 30 round M16 series magazine (NSN 1005-01-561-7200) and the Magpul PMAG 30 AR/M4, 5.56x45 Magazine (NSN 1005-01-628-5106 and NSN 1005-01-615-5169).

***Only the Magpul PMAG 30 AR/M4, 5.56x45 Magazine (NSN 1005-01-615-5169; Mfr Part # MAG556) will be acceptable for solicitation submission and subsequent testing. (see Note 2)***

- 2.9.12.1** The magazine release shall securely retain the magazine in the magazine well. The magazine (whether empty or full) shall fall free from the magazine well once the magazine release button is activated without any further operator assistance. The magazine release button shall be spring loaded and the design of the receiver shall provide some shielding against inadvertent activation when placed against standard USSS uniform and/or body armor. The activation of the magazine release button shall be accomplished with minimum effort by the operator with only one hand.
- 2.9.12.2** The magazine should reliably feed all types of ammunition utilized in the USSS Evaluation and Testing protocols.
- 2.9.12.3** Magazines shall contain an anti-tilt follower that shall be able to activate the weapon's bolt hold open device after the last round in the magazine is fired.
- 2.9.12.4** The magazine shall be capable of being inserted directly into the magazine well by the operator with one hand, and without any "rocking" type motion.
- 2.9.13** Lower Receiver. The lower receiver shall have a permanently affixed plate, label, or laser-etching, displaying a QR code or barcode, readable via commercially-available optical reader. This code shall be embedded with information specific to the host firearm, including (but not limited to) make, model/variant, and unique serial number.
- 2.9.14** Upper Receiver. The weapon shall be equipped with a Mil-Std-1913 Picatinny attachment rail on the top of the receiver for mounting of optics, iron sights, lasers, etc.
- 2.9.15** Forend/Handguard. The weapon shall have a modular free-floating handguard assembly measuring no less than 9.0 inches of functional/configurable railspace (measured along the 6:00 o'clock position of the rail).
- 2.9.15.1** The handguard assembly shall have the ability to attach Mil-Std-1913 Picatinny rail segment along the length of the handguard at the 3:00, 6:00 and 9:00 o'clock positions simultaneously. The manufacturer shall provide a sufficient quantity of rail segments to cover the length of the handguard at the 3:00, 6:00 and 9:00 o'clock positions simultaneously. Handguards with permanently attached Mil-Std 1913 Picatinny rails

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sections the length of the handguard at the 3:00, 6:00 and 9:00 o'clock positions shall also be considered.

**2.9.15.2** When assembled to the weapon, the upper most rail of the free-floating handguard assembly shall align and be at the same height as the rail on the receiver. A one piece receiver/handguard assembly is acceptable as long as the barrel is free-floating, the above rail positioning interfaces are present, and handguard portion meets the minimum length requirement detailed in Section 2.11.14.

**2.9.16** Pistol Grip. The rear pistol grip shall be securely attached to the lower portion of the receiver and shall not interfere with the operation of the selector lever. If applicable to the submission, vendor shall provide interchangeable rear pistol grip adapters (backstraps).

**2.9.17** Butt-Stock. The butt stock shall be quickly adjustable for length of pull without the use of any tools. The butt stock shall have, at minimum total of four positions, including fully extended and fully collapsed.

**2.9.18** Backup Sights. When utilized, the front/rear 'backup' sights shall be viewable through an Aimpoint Model T2 while mounted on a suitable optic-specific commercially available sight mount.

**2.9.18.1** The front sight shall be a folding locking type, capable of being locked in both the up and down positions (lever lock, friction lock, spring detent, etc.). The front sight shall be located at the front of the weapon either on top of the gas block or at the end of the rail on the hand guard. The front sight shall be a post profile type, adjustable for elevation as part of operator zeroing procedures. The profile of the sighting portion of the post shall be .050 to .075 inches in thickness. At no time shall the sight unlock from its position as a result of firing the weapon.

**2.9.18.2** The rear sight shall be a folding locking type, capable of being locked in both the up and down positions (lever lock, friction lock, spring detent etc.). The rear sight shall be an aperture type, adjustable for windage and elevation as part of operator zeroing procedures. At no time shall the sight unlock from its position as a result of firing the weapon.

**2.9.19** Sling Mount. The weapon shall be supplied with means to mount a sling to, at minimum, the rear area of the receiver and the handguard, via quick-detach sling swivel. All sling mounting/attachment points will be required to be rotation-limited (4-position) quick-detach cups, to allow interface with quick-detach push button swivels.

**NOTE 1:** The glove utilized for testing will be the Mechanix Wear "Vent" - Model and Sizes- MGVS-55-009 MED, MGVS-55-010 LRG, MGVS-55-011XL

**NOTE 2:** All reliability and endurance tests will be conducted utilizing magazines supplied by the offeror at time of solicitation.